

19970812.qrp v00\_n816.qrs.970812

>From ???@??? Tue Aug 12 22:32:14 1997  
Date: Tue, 12 Aug 1997 19:03:15 EDT  
Subject: QRP-L digest 816  
Message-Id: <97Aug12.190409edt.35175-34032+108@fidoii.cc.Lehigh.EDU>

QRP-L Digest 816

Topics covered in this issue include:

- 1) [24718] RE: 2SC2166 pwr out  
by "DANIEL DOBSON" <DAN DOBSON@msn.com>
- 2) [24719] Re: GAP Principals (Antenna)  
by duwaynes@postoffice.worldnet.att.net
- 3) [24720] Solar Flux -- UP!  
by "Bob Follett" <bfollett@ditell.com>
- 4) [24721] Soapbox for the August Spartan Sprint (Long)  
by Russ Carpenter <russ@natworld.com>
- 5) [24722] RESULTS FOR THE AUGUST SPARTAN SPRINT  
by Russ Carpenter <russ@natworld.com>
- 6) [24723] Automatic Lightning Protection  
by "Bob Follett" <bfollett@ditell.com>
- 7) [24724] Re: MAPS  
by Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>
- 8) [24725] Re: battery abuser question?  
by launerb@crl.com (William H. Launer)
- 9) [24726] 40m portable ant.  
by ROBERT PENNEYS <radio@UDe1.Edu>
- 10) [24727] 11V from 12V regulator (II)  
by Bill Meara <wmeara@erols.com>
- 11) [24728] 5 year old builder  
by David Adams <adamsclan@netgate.net>
- 12) [24729] cmos III keyer  
by K4AHK@ix.netcom.com
- 13) [24730] AL7FS in Skagway Alaska  
by JLarsen@alascam.att.com
- 14) [24731] Re: 5 year old builder  
by Greg Newberry <newberry@cyberhighway.net>
- 15) [24732] Please Help Identify Part (coil in a coil)  
by "Adam B. Kanis" <adam-kanis@uiowa.edu>
- 16) [24733] Re: 40m portable ant.  
by n5inz@juno.com
- 17) [24734] Butterfly Beam  
by Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>
- 18) [24735] Re: Please Help Identify Part (coil in a coil)  
by Ed Tanton <n4xy@bellsouth.net>
- 19) [24736] Re: Headphone Impedance (WAS: Headphones, where to get)

- by Leon Heller <leon@lfheller.demon.co.uk>
- 20) [24737] Mystery ocde practice box  
by doug hauff <slmachco@fix.net>
- 21) [24738] Re: Special Foxhunt  
by Harvey Hetland <n6mm@earthlink.net>
- 22) [24739] Re: summer doldrums/scratch building  
by Raventhorne <jelder@ix.netcom.com>
- 23) [24740] QRP Packet Terminal/Wordprocessor for sale  
by Michael Fletcher <fletch@swlink.net>
- 24) [24741] Dual gate MOSFETS  
by Bill Meara <wmeara@erols.com>
- 25) [24742] kent dual paddle key  
by No Other Than <mitch96@herald.infi.net>
- 26) [24743] Yaesu tone board  
by "Richard Hensel" <rrhensel@sprintmail.com>
- 27) [24744] Re: RF Sensing Switch  
by Zack Lau <zlau@arrl.org>
- 28) [24745] Re: How to paint PCB  
by Ed Pacyna <pacyna@auratek.com>
- 29) [24746] Map Help, MAPS, Place Names to Lat/Long  
by Ronald McConnell <rcmcc@lucent.com>
- 30) [24747] RE: Please Help Identify Part (coil in a coil)  
by "James C. Owen, III" <owen@piper.eeel.nist.gov>
- 31) [24748] Re: Map Help, MAPS, Place Names to Lat/Long  
by Chris Cartwright <ccart@dns.vidtel.com>
- 32) [24749] Re: Dual gate MOSFETS  
by Chris Trask <ctrask@primenet.com>
- 33) [24750] A1 K0FRP  
by "duane" <duane@flinet.com>
- 34) [24751] PA3GGE  
by jfitton@lucent.com
- 35) [24752] Re: 5 year old builder  
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 36) [24753] Re: Special Foxhunt  
by "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
- 37) [24754] Resonant speaker tube  
by Jim Glover <psykey@okcforum.org>
- 38) [24755] (ANTS.) Gap antennas principles  
by "rohre" <rohre@arlut.utexas.edu>
- 39) [24756] Re: Special Foxhunt  
by Ed Loranger <we6w@qsl.net>
- 40) [24757] FAQs (was: Dan's MPF131)  
by laura halliday <ve7ldh@direct.ca>
- 41) [24758] Scratch/Kit/Commercial (FS: 40m SST)  
by "Brian K. Short" <shortckt@primenet.com>
- 42) [24759] Re: Resonant speaker tube  
by Ed Loranger <we6w@qsl.net>
- 43) [24760] Re: Resonant speaker tube

- by "Bob Kellogg" <ae4ic@nr.infi.net>
- 44) [24761] Re: Resonant speaker tube  
by Chris Cartwright <ccart@dns.vidtel.com>
- 45) [24762] Re: Pixie 2 xtal source request  
by Ed Loranger <we6w@qsl.net>
- 46) [24763] Re: Resonant speaker tube  
by Ed Loranger <we6w@qsl.net>
- 47) [24764] RE: Resonant speaker tube  
by "Pat A. Taber" <pat@vtpo1.genrad.com>
- 48) [24765] OLD "FIRE-BALL" XMTR  
by kreinbd@ccgate.dl.nec.com (David Kreinberg)
- 49) [24766] Map Help, MAPS, Place Names: MORE  
by Ronald McConnell <rcmcc@lucent.com>
- 50) [24767] Re: Resonant speaker tube  
by Ed Loranger <we6w@qsl.net>
- 51) [24768] RE: OLD "FIRE-BALL" XMTR  
by "Ed Manuel" <n5em-qrp@msn.com>
- 52) [24769] Re: Key pictures on the web  
by "Frank, G3YCC." <g3ycc@gqrpclub.demon.co.uk>
- 53) [24770] EZNEC Software / N5ZGT YHOTY '97 award winner/  
by wa5whn@juno.com
- 54) [24771] Re: Special Foxhunt  
by "W. D. Lindsey" <70511.3041@CompuServe.COM>
- 55) [24772] Re: Scratch/Kit/Commercial  
by Steven Weber <kd1jv@moose.ncia.net>
- 56) [24773] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The Net!  
by rerobins@unccvm.uncc.edu (Rick Robinson)
- 57) [24774] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The  
Net!  
by Rick Powell - WB6JBM <ripowell@mpna.com>
- 58) [24775] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The Net!  
by Chris Trask <ctrask@primenet.com>
- 59) [24776] 000000PS!  
by Chris Trask <ctrask@primenet.com>
- 60) [24777] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The Net!  
by Chris Trask <ctrask@primenet.com>

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Date: Mon, 11 Aug 97 21:58:29 UT  
From: "DANIEL DOBSON" <DAN DOBSON@msn.com>  
To: "Steven Weber" <kd1jv@moose.ncia.net>, "Low Power Amateur Radio  
Discussion" <qrp-l@Lehigh.EDU>  
Subject: [24718] RE: 2SC2166 pwr out  
Message-ID: <UPMAIL11.199708112300060051@msn.com>

Hey Folks,

Bear with me. I have forgotten the email address for this server so I'm going to piggy back on this message just to get in the system. BTW, what is the correct address?

My other question is this: I have an OHR Explorer, built in 1995. Has always worked FB, with an output of about 2-2 and a half watts, depending on pwr supply. I made many contacts with it during the recent field day.

The output appears to have dropped to barely 500mW. I rechecked my supply, (13,8v) checked my OHR WM-1 wattmeter, and went through the alignment steps outlined in the OHR manual. Everything checks out except for the output. I think this is the same trans section as the Explorer II and the 100, except for the 5 watt output on the 100.

What should I look for in the trans section?

Any mods out there to boost the output? At least back up to specs?

Thanks for the BW...Dan KG9KF

-----  
From: owner-qrp-1@Lehigh.EDU on behalf of Steven Weber  
Sent: Monday, August 11, 1997 4:29 PM  
To: Low Power Amateur Radio Discussion  
Subject: 2SC2166 pwr out

Hi All,

If anyone was wondering how I got 10+ watts out of a single 2SC2166, the answer is simple----bad test equipment.

Seems I was too lazy to turn on the IFR service monitor, so used an old Radio Shack three scale power/ swr meter. Big mistake. Turns out not only is the accuracy non existant, it is also frequency sensitive.

Measurments on the IFR show 5 watts out up to about 18 Mhz, where it starts to drop with 3 3/4 watts out at 21 Mhz.

Thought 10 watts was too good to be true. 5 watts is more consitant with this type of transistor. Oh well, maybe I do need to go push pull. I also see an OHR QRP power meter in my future.

73

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

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Date: Tue, 12 Aug 1997 07:03:57 -0400  
From: duwaynes@postoffice.worldnet.att.net  
To: qrp-l@Lehigh.EDU  
Subject: [24719] Re: GAP Principals (Antenna)  
Message-ID: <3.0.2.32.19970812070357.009143f0@postoffice.worldnet.att.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 01:03 PM 8/11/97 +0000, you wrote:

>Hi gang,

>

>I read a little blurb about the GAP antenna and how the developer  
>stumbled onto this 'GAP' accidentally. Does anyone know how it really  
>works and if it can be applied to other antenna setups?

>

>Thanks

>Greg

>WB7DUO

>

>

Best place to find the info on the gap antenna is the IBM patent server at  
<http://patent.womplex.ibm.com> and look at patent #5592183. This is the  
original patent on the gap antenna and gives much information on how it  
works and also how to build one. If you look around at this site there are  
many entries concerning antennas. Hope this helps

DuWayne KE4HMP qrp-l #807

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Date: Mon, 11 Aug 1997 17:40:24 -0600  
From: "Bob Follett" <bfollett@ditell.com>  
To: "QRP-L Group" <qrp-l@Lehigh.EDU>  
Subject: [24720] Solar Flux -- UP!  
Message-ID: <199708112333.RAA29855@mars.ditell.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Ok Gang:

Fire up those higher band rigs over the next few days.

>From NOAA:

IV. PENTICTON 10.7 CM FLUX  
OBSERVED 11 AUG 080  
PREDICTED 12 AUG-14 AUG 082/082/084

84 for the 14th looks pretty good!

73, Bob

-----  
Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS  
2861 Estates Dr. VOICE: 801.649.6457  
Park City, UT 84060 E-mail: bfollett@ditell.com

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Date: Mon, 11 Aug 97 16:35:47 -0700  
From: Russ Carpenter <russ@natworld.com>  
To: "QRP-L List" <qrp-l@Lehigh.EDU>  
Subject: [24721] Soapbox for the August Spartan Sprint (Long)  
Message-ID: <199708112335.QAA20374@guppy.pond.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

Here is the Soapbox for the August Spartan Sprint. In spite on those  
thunderbumpers, a fine event.

\*\*\*\*

>From John, K6PZB

N4TN was my best DX.  
I was mobile in Santa Cruz during a vacation.  
Also heard ae4vt,n0ibt, k0dia, kb2tnf, aa3md.

\*\*\*\*

>From Ed, WE6W

Oh boy, Used the Makita Battery the night before but apparently didn't  
take a full charge before the contest.  
After struggling with Joe, AB7TT I cannibalized my  
metal detector and hooked up a bunch of D Cells to  
run the contest. Worked FB, albeit an emergency  
setup.

HW-8, Plastic straight Key, 12 D Cell rechargeables,  
QRP Tuner. Added the Homebrew keyer later which  
pushed me to the full 5 lbs. 1/10 oz. headphones.  
I look forward to this each month!

\*\*\*\*

>From Randy, KS4L

Lots of fun operating about an hour from Whitman Field, Oshkosh, WI  
during the '97 EAA Convention/Fly-in. Rig was OHR Explorer II for 40m,  
LDG Autotuner, 8044 keyer in an Altoids box with Whiterook paddles, 7Ah  
gel cell, and SLV.

\*\*\*\*

>From Larry, WD3P

Went camping in WV. The ant. was up, the station was ready. Then the  
thunderstorms moved in. It was better to have 0 QSOs than to be a  
lightning rod.

\*\*\*\*

>From Lori, AC6XK

I was operating from Big Bear Lake, CA where my daughter and I were  
camping. My antenna location wasn't the greatest and I know it really  
affected my performance. Oh well!

\*\*\*\*

>From Bob, N6WG

Used QRP++, DSP59+, Island Keyer, big FD battery, 2 40m loops in phase.  
Guess most stns were on 20m. 40m was very thin. Worked KI6YN who ran 8w  
and a 40m quad! 5 States, CA, CO, ID, AZ, OR.  
I'll try to be more active in the Sprints, as this was fun.

\*\*\*\*

>From Jim, KC1FB

Wow! Couldn't have timed it worse! Just at 01:00 UTC thunder storms  
rolled in and I had to get off the air. About 02:15 caught a break, got  
WF6B in CA with my 950mW and his 2W's. Then things got bad again and I  
had to wait for another window in the lightning to get K06KA and W6ZH  
both again in CA running 3W's. SST-20's AGC takes care of some of the

QRN, but not the close ones. Maybe next time.....gotta get under 1 lb.....and get more Q's.

Station: SST-20, 8 AA's, whiterook key, earbuds.  
Ant Center-fed-Zepp up abt 55'  
Pwr 900-950 mW using WM-1

\*\*\*\*

>From Brian, W5VB0

Lot's of local T-storm activity limited my ability to copy the weak ones, especially on 40M. Changed my station a bit from last month. I now run an OHR Explorer II on 20 and 40, with a 12 V 4 AH Gel Cell. Still using the old bulky MFJ CW keyboard though, so my overall station weight is still quite high yet. Gonna work on that a bit before the next SP.

\*\*\*\*

>From Dick, KF6CTA

Rig was SST, 20 meters only, with 8-AA cells, Whiterook paddles, and ear buds. TiCK-2 keyer built into the SST. Total about 1.1 pounds on my wife's diet scale. I CHEATED and, rather than use my usual roof-top vertical in San Diego, I trekked out on Pt. Loma to the radio club and used the Force C-3 beam. What a difference a good antenna makes when it is 400 feet up over water to both east and west!!! Had a pipeline into NJ, VA, TN, LA, etc. Someone with some skill could have racked up a really good score. But I am pleased and had a lot of fun. I'm practicing and learning. Also, confession is good for the soul.

\*\*\*\*

>From Randy, AB7TK

After having it easy the last two Spartan Sprints, I went to the mountains north of Moscow and put up a 40 m dipole headed southeast. I used the SST and it did a fine job. The rest of the station was a G4ZPY paddle, a Curtis 8044 keyer chip inside the SST, a small ear piece, and 8 AA batteries. It is a lot of extra trouble to face the dipole toward the east rather



than the south. Only two contacts were to the east, so I think next time I'll just head the dipole toward the south to catch CA and AZ. Too early in the evening to take advantage of an easterly heading.

\*\*\*\*

>From Rob, K06KA

I loaded my tubby Argonaut and vertical into the car and went portable to escape the surging line noise. It was wonderful to hear so much further. Same location, same gear as for Field Day. The setup goes much faster with practice! I know we are encouraged to travel by human power but 104 degrees is just too hot, I'd pass out. Thanks especially to the east coast stations who could copy me -- KC1FB N2CQ N4ROA WJ4P N4OLN -- that's a long haul from California! 73, Rob K06KA

\*\*\*\*

>From Jack, W7QQQ

What a blast! I used a ICOM 725 this time, but I'll be back in September with a SST. Thanks for organizing a fun event.

\*\*\*\*

>From Harvey, N6MM

Comments: From Pete, W6ZH, "Key paddle made from switch parts awful". N4TN gets my nomination for "good ears" for hearing me on 40m. Missed Cam, N6GA on 40m when he disappeared, but he quickly appeared on 20m.

\*\*\*\*

>From Mark, N2VPK

I only got to play for about 40 minutes but had lots of fun. There were not many SP'ers on 40M. Seems lots of folks would rather the double points on 20M. Unfortunately, it was hard to make Q's on 20M. There were a lot of SP'ers right at the noise level and not workable.

It seems to be easier making 40M Q's at 850mW than 20M Q's at 5W! (I used

a full wave loop on 40M and an XBeam at 35' on 20M.) Oh, the rigs were the SWL40 and an OHR100. Power was from an AA cell Pack. Keying was by an Atomic Keyer and Enviro paddles. Power was set a few days ago with a WM-2.

Thanks to the following folks for finding me last night- N2CQ, W5VB0, W6ZH, K6RPN, AB7TT, WS8D.

Lastly, maybe single points for both bands would result in more total Q's for the test. What do you think? Mark N2VPK

\*\*\*\*

>From Ken, N2CQ

I was lucky to be on vacation when the August Sprint came along so I had a chance to join the fun, instead of going to work in the evenings. I tried to run the Explorer on 40 at 1 w on a battery pack of 8 AA cells for a while. Mark N2VPK was the only QSO for the first halfhour so I went to 20 with the big battery pack (7.7 lb). Had to do that since the MFJ-9020 would drain the AA Pack in about 1 qso. More fun on 20. Lots of guys in Ca, AZ, and TX. Good signals from CA too. Back to 40 for the last halfhour with the Big Pack. Still nobody there again until the last 5 minutes which I was lucky for a QSO on WI and MI. It is a interesting 2 hours and I will try it again when I can.

\*\*\*\*

>From Dan, N4ROA

Gotta work on my station weight. N4TN says that it is a good thing the operator weight is not counted. hee hee

\*\*\*\*

>From Joe, AB7TT

Wow, rough night! Big thunderstorms around the valley made for some hellacious QRN. Managed to work states across the US (AZ, CA, GA, IL, MI, NY, NJ, TN, TX, VA) but it wasn't easy on either side. Sorry WJ4P - your call was there, then you just plain disappeared.

Thanks for the QSOs folks! Hope the thunderstorms stay away next time so I can hear the rest of you.

\*\*\*\*

>From Randy, WJ4P

Thunderstorms kept me from getting on the first hour. Looks like I had a "pipeline" into CA with all contacts from 6 land. Thanks to AB7TN and W7QQQ for trying to break the CA "spell". QSB got them before I could get the exchange.

\*\*\*\*

>From Cam, N6GA

I was surprised to make QSOs in LA and TN on 40M - the band was in amazingly good shape. QSY'd to 20M and found it was even better! Next time I should have the SST going, hope to make a dent in the "Fly Weight" category.

\*\*\*\*

>From Don, WF6B

USED SST FROM WILDERNESS RADIO, HAS GOOD EARS FOR SUCH A SMALL RADIO.

\*\*\*\*

>From Dean, N2TNN

Wow, the traffic. It sounded like everyone was calling CQ at once. West coast was coming in very strong but no reply from AB7TT, N6MM, W6ZSR, AC6RN and a bunch of others. Let's do it again next month.

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Date: Mon, 11 Aug 97 16:35:53 -0700  
From: Russ Carpenter <russ@natworld.com>  
To: "QRP-L List" <qrp-l@Lehigh.EDU>  
Cc: "Richard Fisher" <KI6SN@aol.com>, "Wayne Burdick" <svecbrdk@mail.well.com>, "Lorraine Aubert" <AC6XK@amsat.org>, "Cam Hartford" <camqrp@cyberg8t.com>  
Subject: [24722] RESULTS FOR THE AUGUST SPARTAN SPRINT  
Message-ID: <199708112335.QAA20384@guppy.pond.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

We were blessed with excellent participation in the August Spartan

Sprint. These results are being posted several days after our standard posting date, cause your contest manager was playing in the back country last week.

It looks like the SST is about to make a big difference in the world of Spartan Sprinters. This nifty little radio performs well and weighs less than zilch.

By way of reminder, each 20 meter Q gets two points, and each 40 meter Q gets one point. (This scoring system is designed to encourage QRPers to explore the world beyond 40 meters, and to make the Spartan Sprints a national contest.) In some cases where the stations were clearly in the tubby category, but station weight was not provided, your contest manager assigned an arbitrary weight of 30 pounds.

The top two performers in each category receive handsome certificates. The contest manager is not eligible.

Results sorted in order of points per pound:

Name	Call	20 M	40M	Total	Weight	Points/ Pound
KF6CTA	Dick	20	0	20	1.1	18.18
WF6B	Don	24	0	24	1.4	17.14
W6ZH	Pete	34	10	44	2.91	15.12
WJ4P	Randy	10	0	10	.7	14.29
AB7TT	Joe	24	0	24	2.4	10.00
AB7TK	Randy	0	10	10	1.2	8.33
N6MM	Harvey	28	8	36	5.7	6.32
N4ROA	Dan	36	5	41	7.5	5.47
KC1FB	Jim	6	0	6	1.1	5.45
W5VBO	Brian	32	6	38	7.5	5.07
N6GA	Cam	14	6	20	4	5.00
WE6W	Ed	10	5	15	5	3.00
N2CQ	Ken	22	3	25	11	2.27
N2VPK	Mark	8	2	10	5	2.00
K06KA	Rob	18	3	21	14.8	1.42
WS8D	Mike	28	4	32	25	1.28
W7QQQ	Jack	20	7	27	21.3	1.27
N0IBT	Dave	2	6	8	7	1.14
KS4L	Randy	0	7	7	8.2	0.85
AC5AM	Bob	32	4	36	50	0.72
K6PZB	John	0	11	11	20	0.55
AC6XK	Lori	0	2	2	4.5	0.44
VE5WF	Earl	12	0	12	30	0.40
N6WG	Bob	0	13	13	35.7	0.36
N2TNN	Dean	0	3	3	15	0.20

Results sorted in order of points:

Name	Call	20 M	40M	Total
W6ZH	Pete	34	10	44
N4ROA	Dan	36	5	41
W5VBO	Brian	32	6	38
AC5AM	Bob	32	4	36
N6MM	Harvey	28	8	36
WS8D	Mike	28	4	32
W7QQQ	Jack	20	7	27
N2CQ	Ken	22	3	25
AB7TT	Joe	24	0	24
WF6B	Don	24	0	24
K06KA	Rob	18	3	21
KF6CTA	Dick	20	0	20
N6GA	Cam	14	6	20
WE6W	Ed	10	5	15
N6WG	Bob	0	13	13
VE5WF	Earl	12	0	12
K6PZB	John	0	11	11
AB7TK	Randy	0	10	10
N2VPK	Mark	8	2	10
WJ4P	Randy	10	0	10
N0IBT	Dave	2	6	8
KS4L	Randy	0	7	7
KC1FB	Jim	6	0	6
N2TNN	Dean	0	3	3
AC6XK	Lori	0	2	2

Thanks for your support!

Russ Carpenter, AA7QU  
Contest Manager for Adventure Radio Society

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Date: Mon, 11 Aug 1997 17:46:36 -0600  
From: "Bob Follett" <bfollett@ditell.com>  
To: "QRP-L Group" <qrp-l@Lehigh.EDU>  
Subject: [24723] Automatic Lightning Protection  
Message-ID: <199708112339.RAA29998@mars.ditell.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Gang:

I hate to re-post copywritten material, but this announcement seemed so relevant to many past discussions.... Now if I only knew what it cost....

UPI Science News

PLANT CITY, Fla., Aug. 11 (UPI) - A new system protects your home or business from lightning by automatically unplugging all your electronic equipment and telephone lines to prevent damage.

Dan Young of Rabun Labs in Plant City, Fla., says he's invented three systems that automatically disconnect the vulnerable equipment from the power source.

Says Young, "These systems are 'active and intelligent' and operate with no human intervention. They detect lightning when it is a safe distance away, then isolate your equipment from the power source, telephone lines, coaxable lines and so forth. Then they ground those input-output lines."

The systems are not like surge suppressors or arrestors. When your equipment is hooked to a surge suppressor and turned off, it still remains connected to the power source. The new system "unplugs" the equipment from that source.

Young notes that every year more than \$1 billion is spent to repair lightning-damaged equipment.

Each system is designed for a specific purpose. The AI-1800 system is used in industrial locations where continuous operation is needed for production. The Model 1000 is best for protecting the home or office. And the ILD is intended for safeguarding computers and home entertainment equipment.

The systems can be purchased through Rabun Labs. (Written by UPI Science Writer Lidia Wasowicz in San Francisco)

Anybody want to research the product and give a report to QRP-L?

73, Bob

-----  
Bob Follett AB7ST, QRP-L # 129, NorCal, ARCI, 10-10, ARS  
2861 Estates Dr. VOICE: 801.649.6457  
Park City, UT 84060 E-mail: bfollett@ditell.com  
  
-----

Date: Mon, 11 Aug 97 16:46:00 PDT  
From: Cecil A Moore <Cecil\_A\_Moore@ccm.ch.intel.com>  
To: qrp-1@Lehigh.EDU  
Subject: [24724] Re: MAPS

>From: Brad Mugleston <bmug@gwl.com>  
>Boy did I get a response to my last request. For those of you who  
>are interested here are the responses I got.

Hi Brad, the other day, I stumbled across a web site that would draw azimuthal maps for any location at any scale. Unfortunately, I didn't bookmark the URL. Do you or anybody else know the URL of such a web site?

thanks & 73, Cecil, W6RCA, OOTC

-----  
Date: Mon, 11 Aug 1997 19:59:48 -0500  
From: launerb@crl.com (William H. Launer)  
To: qrp-1@Lehigh.EDU  
Subject: [24725] Re: battery abuser question?  
Message-ID: <v0153050bb0155fd6c146@[192.0.2.1]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

>On a related note, what happens to a battery (computer grade lead  
>acid) that you just leave lying around indoors? Anything evil?

The real proof of survival will be to charge them, and do a discharge/capacity test. I've had batteries show good terminal voltage with a DVM, but fail miserably when asked to provide real ampere-hours!

A conventional, deep-discharge lead-acid battery will probably not suffer much from this type of treatment. The new breed of "minimum/no maintenance" automotive batteries will not stand being stored for long periods, especially if they're allowed to self-discharge during the storage period. Once they have deeply discharged, they will look like they are taking a charge (the terminal voltage will come up), but will fail a capacity test.

72/73 Bill wb0cld

Bill Launer

St. Charles, MO  
launerb@crl.com  
wb0cld@wb0cld.ampr.org [44.46.66.25]  
qrp-l #279            qrp arco #3551  
Grid Square EM48RT

-----  
Date: Mon, 11 Aug 1997 21:05:14 -0400 (EDT)  
From: ROBERT PENNEYS <radio@UDe1.Edu>  
To: qrp-l@Lehigh.EDU  
Subject: [24726] 40m portable ant.  
Message-ID: <199708120105.VAA14085@copland.udel.edu>

Looking for easy to set up antenna for portable 40m QRP. Have mount on car for mobile ant., have MFJ folded dipole. Want something that doesn't take a lot of room or time for the beach, pool, trips, etc, where there may not be trees available.

Tnx and 72.... Bob

Bob Penneys, N9GG (recently WN3K)    Trustee, W3TT, W3JJ  
Frankford Radio Club - Perennial #1 Worldwide in Contesting  
Sales Manager, Ham Radio Outlet, Delaware - World's Largest Ham Dealer  
tel: (800) 644 4476            fax: (302) 322-8808            e-mail: rgp@hamradio.com

-----  
Date: Mon, 11 Aug 1997 21:27:05 -0400  
From: Bill Meara <wmeara@erols.com>  
To: qrp-l@Lehigh.EDU  
Subject: [24727] 11V from 12V regulator (II)  
Message-ID: <199708120131.VAA12709@smtp1.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Thanks to all who sent advice on my regulator problems. First, let me confirm that I did indeed have a rectifier in the circuit! Full wave bridge rated at 4 amps, 50 volts.

Transformer has an 18 volt secondary. (There is a center tap but I'm not using it.) The circuit I'm using is essentially the one on page 239 of QRP



Classics (minus some of the caps and the RFC).

Following some of the suggestions posted here, I went ahead and put bypass capacitors on the regulator's input and output (hoping to suppress any oscillations that might be present). No luck. Still got 11 volts out. (I've measured the same voltage with two different meters - one a VOM and the other a VTVM.)

I'm thinking that I simply bought an 11 volt regulator in 12 volt clothing! Tomorrow I'll try a new part (and will report back on results).

Thanks again.

73 de N2CQR

Bill Meara, Falls Church, Virginia

wmeara@erols.com

<http://www.mindspring.com/~johnmb/billm.htm>

-----  
Date: Mon, 11 Aug 1997 19:06:57 -0700  
From: David Adams <adamsclan@netgate.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24728] 5 year old builder  
Message-ID: <33EFC540.5BC5@netgate.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Well, I've been nailed by my good friend URI (upper resp infection), so I was home with my daughter today rather than at work. I couldn't take her outside, and she was bored with playing inside games by about 3, so I asked her if she'd like to help sort the parts for my new explorer II kit. Now, anytime she gets to watch me build something she beams, so not too suprisingly, she jumped at the chance.

Now, I don't suggest this for the serious builder, but when you get down to it, I need another 40m rig like I need a hole in my head...so I wasn't too worried.

We spread out her art mat on the floor and opened the bags. I snagged all the silicon bits for safe keeping. I told Brittany to sort out all the resistors ("What are those?" "The little brown ones with the pretty lines" "Oh") while I took care of the caps ("you mean the blue things?" "yep...and the brown ones too" "oh"). We made our piles...she even made a separate pile for the molded inductors (I had expected to see them in the resistor pile).

Next, we checked out the resistors. I called out the number and colors and she dug for them. It was a bit confusing for her till she learned that the gold band is always last.

Next I handed her the caps and showed her the numbers and told her to "find the matches." While she did that I zipped through the silicon inventory.

We then checked off the matched and unmatched caps.

Finally we buzzed through the hardware and peaked at the clock...lo and behold...I'd never inventoried a rig so quickly before...go figure...she was ready to play at that point, so we packed up the parts in our Fry's parts bin and headed back to Thomas and his clickety clack track.

Dave

-----  
Date: Mon, 11 Aug 1997 22:08:42 -0400  
From: K4AHK@ix.netcom.com  
To: qrp-l mail <qrp-l@Lehigh.EDU>  
Subject: [24729] cmos III keyer  
Message-ID: <33EFC5A6.4659@ix.netcom.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks to all who sent me info about the Idiom Press CMOS III keyer.

I found the ad in QST as directed.

Bill - K4AHK

-----  
Date: Mon, 11 Aug 1997 18:49:56 -0800  
From: JLarsen@alascom.att.com  
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>  
Subject: [24730] AL7FS in Skagway Alaska  
Message-ID: <3FFF2C3C44B1D011899600A0245821700E9096@alascomexca.alascom.att.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Greetings,

I am in the motorhome in Skagway Alaska until next Sunday morning. I will be looking around the QRP frequencies in the evenings starting around 0230-0300Z.

I just ducked into my son's lodgings here at the White Pass and Yukon Route railroad to use the phone line.

I am heading out to the motorhome now (0300Z) to see what I can hear.

Be kind to me, as I am using the mike up-down buttons as 16 wpm for now. I will have to break out the QRP+ and set up the paddles later.

73,  
Jim  
AL7FS  
Skagway, Alaska

-----  
Date: Mon, 11 Aug 1997 21:02:59 -0600  
From: Greg Newberry <newberry@cyberhighway.net>  
To: adamsclan@netgate.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24731] Re: 5 year old builder  
Message-ID: <33EFD263.7EDB@cyberhighway.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

David Adams wrote:

>  
> Well, I've been nailed by my good friend URI (upper resp infection), so  
> I was home with my daughter today rather than at work. I couldn't take  
> her outside, and she was bored with playing inside games by about 3, so  
> I asked her if she'd like to help sort the parts for my new explorer II  
> kit. Now, anytime she gets to watch me build something she beams, so  
> not too suprisingly, she jumped at the chance.  
>  
> Now, I don't suggest this for the serious builder, but when you get down  
> to it, I need another 40m rig like I need a hole in my head...so I  
> wasn't to worried.  
>  
> We spread out her art mat on the floor and opened the bags. I snagged  
> all the silicon bits for safe keeping. I told Brittany to sort out all  
> the resistors ("What are those?" "The little brown ones with the pretty  
> lines" "Oh") while I took care of the caps ("you mean the blue things?"

> "yep...and the brown ones too" "oh"). We made our piles...she even made  
> a separate pile for the molded inductors (I had expected to see them in  
> the resistor pile).  
>  
> Next, we checked out the resistors. I called out the number and colors  
> and she dug for them. It was a bit confusing for her till she learned  
> that the gold band is always last.  
>  
> Next I handed her the caps and showed her the numbers and told her to  
> "find the matches." While she did that I zipped through the silicon  
> inventory.  
>  
> We then checked off the matched and unmatched caps.  
>  
> Finally we buzzed through the hardware and peaked at the clock...lo and  
> behold...I'd never inventoried a rig so quickly before...go figure...she  
> was ready to play at that point, so we packed up the parts in our Fry's  
> parts bin and headed back to Thomas and his clickety clack track.  
>  
> Dave

Nice Story. I used to get old radios and set my daughter up at the  
workbench with a screwdriver and a pair of wire cutters. I'd tell her to  
take Everything off. In about an hour the chassis was picked clean.  
Looked like a sun-dried cow head in the desert. It was hard to keep her  
out of the good stuff....

Greg

-----  
Date: Mon, 11 Aug 1997 22:05:03 -0500  
From: "Adam B. Kanis" <adam-kanis@uiowa.edu>  
To: qrp-l@Lehigh.EDU  
Subject: [24732] Please Help Identify Part (coil in a coil)  
Message-ID: <3.0.3.32.19970811220503.006960b0@molsun.ophth.uiowa.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

hi all,

at a hamfest last weekend i bought a BOX of air variable capacitors, many  
with gear reduction built on. i offered the guy \$1 each for 2 of them, but  
he told me it was \$1 for the whole box, so i hauled it out.

anyway, besides the air-variables, in it were a bunch of coils and coil  
forms. there are also these ?ceramic coil forms with a small ring-shaped

ceramic form inside that could rotate, changing its orientation with respect to the long axis of the main coil form. i'm guessing that this allows for some kind of variable coupling between the two, but that is only a guess. could anybody give me clue what they are and what they are used for? i've got a couple of these things.

btw-if anybody is dying to have one, let me know as i can probably spare one.

73,  
--adam, n2brt  
adam-kanis@uiowa.edu

-----  
Date: Mon, 11 Aug 1997 20:23:19 -0700  
From: n5inz@juno.com  
To: radio@UDe1.Edu  
Cc: qrp-1@Lehigh.EDU  
Subject: [24733] Re: 40m portable ant.  
Message-ID: <19970811.202319.3166.2.N5INZ@juno.com>

Sorry,,,,,that may not have been helpfull.

Try this.....piece of wood (say.....12x24- somewhere near one side of the long end mount a thick dowel. Use your imagination. On the side AWAY from the dowel(with the dowel exposed), drive over the board until the tire rests on the board and the dowel is exposed in it's upright position.

Using TV masts(availiabile from Radio Shack in 3/4/5 ft. lengths-don't remember- These are the ones that slip into each other), set the mast over the dowel. An eye or other device(plastic ties, etc.) will be used for raising the dipole.

Tie childrens balloons across the dipole so the general public doesn't keep you in court.

72, John-N5INZ

BTW- If ya wanna get fancy.....and build a custom mount; cut a circular piece of wood and mount to the spare tire(using the dowel) and lay it on the ground away from others who park in your lot.

Ref: A Short 7-MHz Dipole Qrp Classics/ QST 4/89

-----

Date: Mon, 11 Aug 1997 23:22:33 -0400  
From: Thomas Isgro <kc8dgu@postoffice.worldnet.att.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24734] Butterfly Beam  
Message-ID: <33EFD6F9.3796@postoffice.worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Thanks for all the replies to my question about the Butternut Butterfly beam and thanks for the bandwidth.

--

\*\*\*\*\*  
\*\*\*\*\*  
73 de  
KI8CZ  
Tom Isgro  
OHIO

10-X #68364	SCI #1479	QRP-L #945	ARS #203
C.A.T.T #2115	FIST 2360	NORCAL	ARRL

\*\*\*\*\*  
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Date: Tue, 12 Aug 1997 01:35:06 -0400  
From: Ed Tanton <n4xy@bellsouth.net>  
To: adam-kanis@uiowa.edu  
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [24735] Re: Please Help Identify Part (coil in a coil)  
Message-ID: <3.0.1.32.19970812013506.009153c0@mail.atl.bellsouth.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi Adam... often called a "variometer" these are indeed variable link coupling inductors. You vary the amount of signal through the coupler by varying the coupling using the rotatable link.  
It is efficient, and often death on harmonics... but as you can see, not inexpensive to manufacture.

At 10:05 PM 8/11/97 -0500, Adam B. Kanis wrote:



Message-ID: <1TwdSBAp227zEwI\$@lfheller.demon.co.uk>  
MIME-Version: 1.0

In message <33EF4663.6792@artemis.fc.hp.com>, KB0VCC  
<dalea@artemis.fc.hp.com> writes  
>L.C. Chadbourne wrote:  
>>I recently got my OHR-100 back from alignment. It include a note to "Use  
>>Only (underlined)! 8 ohm Headphones . . ." I've checked local sources  
>>and can't find any. Anyone know where I can order a pair?  
>>Thanks in advance.  
>>N5LC  
>  
>I have an OHR-100 as well and have read this "warning". I would  
>like to install an audio output transformer inside (that I can  
>switch in or out) to match the Z to the type of headphone. So here's  
>my question: What is the typical Z of personal stereo headphones?  
>I've heard anywhere from 600 to 2K Ohms. Can someone who REALLY  
>knows, let me know?

32 ohms.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>  
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424  
See <http://www.lfheller.demon.co.uk/rcm.htm> for details of a  
low-cost reconfigurable computing module using the XC6216 FPGA

-----  
Date: Mon, 11 Aug 1997 22:49:16 -0700 (PDT)  
From: doug hauff <slmachco@fix.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24737] Mystery ocde practice box  
Message-ID: <199708120549.WAA14099@fletch.fix.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

OK, now its my turn to say "stupid me I was too quick on the delete button", about the code practice Black Box. What I saw before my dinosaur computer wiped it out leads me to believe I know what it is - a CAT code generator. Several versions, I learned the code with the cheapest one , \$29.00, generates qso's, random characters, tests, etc., standard or Farnsworth, etc., controlled by pushbuttons probably spend half a lifetime figuring out how it works without the manual. So Whoever posted the question, please contact me I'll send you a copy, I have both standard and deluxe models.



Great unit.

73 Doug KE6RIE

-----  
Date: Tue, 12 Aug 1997 07:01:48 -0700  
From: Harvey Hetland <n6mm@earthlink.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24738] Re: Special Foxhunt  
Message-ID: <33F06CCC.2FB1@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

After three nights of listening to snap, crackle and pop on 40m in search of the "special fox" the log indicates no special fox but a lot of nice QRP-L QSOs. One QRPer suggested it was a joke. If so it did get a lot of us on the air. Has anyone heard the K5FO fox? Other than K0EVZ calling K5FO and comments during QSOs to the effect of, "Where's Chuck", there has been no sign of a possible fox from my location. Our local Tuesday is the last chance. Is there meaning to Chuck's selection of words, "Until Tuesday night late"? Possibly later than 0700Z? Anyone heard him?

73, Harvey, N6MM.

-----  
Date: Tue, 12 Aug 1997 02:13:48 -0500 (CDT)  
From: Raventhorne <jelder@ix.netcom.com>  
To: moyle@essc.psu.edu, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [24739] Re: summer doldrums/scratch building  
Message-ID: <2.2.16.19970812001338.3ad739b6@popd.ix.netcom.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 01:41 PM 8/8/1997 -0400, Al Moyle wrote:

>Gang,

>

>Here's the scoop ... Straight from Amazon.com. Unfortunately, it isn't  
>available right now.

>

>72,

>A1 N3KFL  
>  
>Handbook of Simplified Solid State Circuit Design  
> by John D. Lenf  
>  
>  
> 2nd Edition  
> Paperback  
> Published by Simon & Schuster (Paper)  
> Publication date: March 1979  
> ISBN: 0133817075  
>  
> THIS ITEM IS CURRENTLY NOT AVAILABLE. Though not  
> officially "out of print," this item is "out of stock"

Amazon chose to show a less grim picture to me:

Handbook of Simplified Solid State Circuit Design  
by John D. Lenk

2nd Edition  
Hardcover, 429 pages  
Published by Prentice Hall  
Publication date: January 1978  
Dimensions (in inches): 9.28 x 6.35 x 1.06  
ISBN: 0133817156  
List: \$41.00 ~ Our Price: \$28.70 ~ You Save: \$12.30 (30%)  
Availability: On Order; usually ships within 1-2 weeks.

@~~~  
@ John Elder, Ko6TS  
@ PHROG (Pagan Ham Radio Operators' Guild)  
@ Box 232, El Segundo, CA 90245  
@ Reunite Gondwanaland!

-----  
Date: Tue, 12 Aug 1997 01:49:37 -0700  
From: Michael Fletcher <fletch@swlink.net>  
To: qrp-1@Lehigh.EDU  
Subject: [24740] QRP Packet Terminal/Wordprocessor for sale  
Message-ID: <l03010d01b015d3bc5b13@[204.252.163.108]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I have a Tandy WP-2 notebook wordprocessor that also has a terminal

program and RS-232 output built into it. Some hams used the older Model 100 for mobile and portable packet so this should work as well, especially with its larger 8-line, 80 character-wide screen and larger keyboard. It has a 128K Ramdisk that I have added and is in excellent condition. Runs for quite a few hours on 4-AAA cells or AC/DC adapters.

Anyone for QRP packet?

I'd be receptive to trading for an interesting QRP rig of similar value (to the seller, of course!).

73,  
Mike NP2J  
Chandler, AZ

-----  
Date: Tue, 12 Aug 1997 05:49:44 -0400  
From: Bill Meara <wmeara@erols.com>  
To: qrp-l@Lehigh.EDU  
Subject: [24741] Dual gate MOSFETS  
Message-ID: <199708120953.FAA01514@smtp1.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

W3KL was asking about the suitability of the MPF-131's currently advertised on Dan's Small Parts' Web Page (for use as a substitute for the 40673's that appear in so many of the QRP Classics circuits). I'm hoping that they will be OK, because I just ordered a few (for future projects).

Another source: I noticed that Mouser is selling SK3050 devices. One of the data bases (Penn State?) that these devices were presented as very similar to the 40673 and NTE222 MOSFETS.

Is anyone still making dual gate MOSFETS or are we all just consuming old stock?

73 de N2CQR  
Bill Meara, Falls Church, Virginia  
wmeara@erols.com  
<http://www.mindspring.com/~johnmb/billm.htm>

-----  
Date: Tue, 12 Aug 1997 08:06:07 -0400  
From: No Other Than <mitch96@herald.infi.net>  
To: qrp-1@Lehigh.EDU  
Subject: [24742] kent dual paddle key  
Message-ID: <33F04F2F.1B87@herald.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi gang,  
I am looking for a used, but not abused, KENT dual paddle key.  
Please e-mail if interested.  
Mitch, N4jbw ..

-----  
Date: Tue, 12 Aug 1997 08:10:56 -0400  
From: "Richard Hensel" <rrhensel@sprintmail.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [24743] Yaesu tone board  
Message-ID: <199708121220.FAA16382@mailgate22>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

This is not strictly QRP, but this group is the best source for help I know.

I just recently acquired a Yaesu FT-208R handheld. The radio seems to work fb, however the radio has the optional FTS-32 tone board and I dont know what the dip switch settings are. If anyone could copy the manual for the tone board I would gladly pay for copying.

Thanks, 73 72  
Dick Hensel N8WLC  
rrhensel@sprintmail.com  
419-562-8822  
fax 419-562-3798

-----

Date: Tue, 12 Aug 1997 08:29:26 -0400  
From: Zack Lau <zlau@arrl.org>  
To: qrp-1@Lehigh.EDU  
Subject: [24744] Re: RF Sensing Switch  
Message-ID: <33F05726.1642@arrl.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Kory Hamzeh wrote:

>  
> I am working on a 20 watt amp to give my QRP rigs a little punch every  
> now and then. Since none of my QRP rigs have a TX output signal (PTT),  
> I'd like to build something very simple to sense that the rig is  
> transmitting and turn on a transistor. I was looking at the rainbow

A simple diode detector will work with typical QRP levels.

However, I'm a bit leery of hot switching 10s of watts--even  
if the switching device survives you can still generate a nasty  
sounding signal, adding serious key clicks.

I've used two methods to avoid this problem. The simplest is to  
multiplex a DC control line onto the RF output of the radio, and  
sense this for T/R switching. I make sure that this signal has  
the proper sequencing.

Alternately, you can build a sequencer into the amplifier, and  
bring up/down the amplifier in the proper timing and order.  
Sequencers are quite common in ARRL Handbooks--we have had as  
many as three at one time!

--Zack Lau W1VT

-----  
Date: Tue, 12 Aug 1997 08:41:07 -0400  
From: Ed Pacyna <pacyna@auratek.com>  
To: qrp-1@Lehigh.EDU  
Subject: [24745] Re: How to paint PCB  
Message-ID: <3.0.16.19970812084106.2fc75404@dingle.auratek.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 06:09 PM 8/11/97 -0400, Bob Kellogg wrote:

>I sand the enclosures and finish them like an automobile fender. That is,  
>I use fine wet or dry sandpaper, then spray on an automotive undercoat,  
>sand again, (do this maybe two or three times) and then the final coats of  
>automotive paint.

This paint is good quality and you will be able to find colors that match  
to TenTec, Kenwood etc. equipment.

Ed, W1AAZ

-----  
Date: Tue, 12 Aug 1997 08:44:12 -0400  
From: Ronald McConnell <rcmcc@lucent.com>  
To: "'bmug@gwl.com'" <bmug@gwl.com>, "'qrp-1@lehigh.edu'"@nss2.CC.Lehigh.EDU,  
<qrp-1@Lehigh.EDU>  
Cc: "'Ronald McConnell'" <rcmcc@lucent.com>  
Subject: [24746] Map Help, MAPS, Place Names to Lat/Long  
Message-ID: <01BCA6FB.E9FA5330@adc\_lab9.amc.bell-labs.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

That was a great list of web sites to get Lat/Long  
for street addresses! I'll see if I have any more  
(probably not).

For place names to lat/long for the US and Canada.

The US Geological Survey geographic name information service  
(GNIS) query:

<http://www-nmd.usgs.gov/www/gnis/gnisform.html>

has coordinates for every big rock, small pond,  
bridge, cemetery, ... in the US that has a name,  
not just cities and towns. I found 114 "McConnell"  
locations.

The Canadian counterpart is the geographic name  
server at Natural Resources Canada:

[http://www-nais.ccm.nrcan.gc.ca/cgndb/english/cgndb\\_lookup\\_html](http://www-nais.ccm.nrcan.gc.ca/cgndb/english/cgndb_lookup_html)

I haven't found a free online source for  
world latitude and longitude coordinate data yet.  
[ The Defense Mapping Agency (DMA) data base seems  
to be restricted to official gov't use. ]

Cheers, 73,

Ron McConnell, w2iol  
rcmcc@lucent.com

-----  
Date: Tue, 12 Aug 1997 08:41:49 -0500 (EST)  
From: "James C. Owen, III" <owen@piper.eeel.nist.gov>  
To: qrp-l@Lehigh.EDU  
Subject: [24747] RE: Please Help Identify Part (coil in a coil)  
Message-ID: <31311.owen@piper.eeel.nist.gov>

In message Mon, 11 Aug 1997 22:05:03 -0500,  
"Adam B. Kanis" <adam-kanis@uiowa.edu> writes:

> hi all,  
> ceramic coil forms with a small ring-shaped  
> ceramic form inside that could rotate, changing its orientation with  
> respect to the long axis of the main coil form. i'm guessing that this  
> allows for some kind of variable coupling between the two, but that is  
> only a guess. could anybody give me clue what they are and what they are  
> used for? i've got a couple of these things.  
>

It sounds like the final tank coil from the ARC-5 transmitters. The moveable  
coil is the link output.

-----  
Date: Tue, 12 Aug 1997 09:12:38 -0400 (EDT)  
From: Chris Cartwright <ccart@dns.vidtel.com>  
To: QRP Reflector <qrp-l@Lehigh.EDU>  
Subject: [24748] Re: Map Help, MAPS, Place Names to Lat/Long  
Message-ID: <Pine.LNX.3.93.970812090412.559A-100000@dns.vidtel.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 12 Aug 1997, Ronald McConnell wrote:

>  
> That was a great list of web sites to get Lat/Long  
> for street addresses! I'll see if I have any more

Just wondering if anyone has found a web/net source that can give altitude (height above sea level) for lat and long? I spent the better part of a day wandering the web, mostly USGS, and had a tough time finding the highest point in MD. I finally found it (by accident) on a page for State and National parks. I guess most of us are only interested in the "high" points <grin>. I have bought USGS "Quads" in the past, but sometimes they are tough to find and/or get expensive if you want to cover an entire state. 72

```
-- Chris Cartwright,   Technical Engineer |      ccart@vidtel.com      --
-- N3XRV               QRP WAS 17/9 (w/c) |      ccart@erols.com      --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? | http://dns.vidtel.com/~ccart --
-- WIMPS Q's=04 30M=04 17M=00 12M=00 STATES=03/00/00 DX=00/00/00 QSL's=00 --
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-----  
Date: Tue, 12 Aug 1997 06:50:36 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Bill Meara <wmeara@erols.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24749] Re: Dual gate MOSFETS  
Message-ID: <Pine.BSI.3.96.970812064307.6995B-100000@usr09.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 12 Aug 1997, Bill Meara wrote:

> W3KL was asking about the suitability of the MPF-131's currently advertised  
> on Dan's Small Parts' Web Page (for use as a substitute for the 40673's that  
> appear in so many of the QRP Classics circuits). I'm hoping that they will  
> be OK, because I just ordered a few (for future projects).  
>

Except for a slightly higher Ciss, the MPF131 is a good replacement for the 40673. Most important was the specification for Vg1s(off) and Vg2s(off). Most dual-gate MOSFETs currently available require a positive voltage on G2 in order to conduct.

> Another source: I noticed that Mouser is selling SK3050 devices. One of  
> the data bases (Penn State?) that these devices were presented as very  
> similar to the 40673 and NTE222 MOSFETS.  
>



Penn State? I'm not familiar with this data base. Do you have any details?

> Is anyone still making dual gate MOSFETS or are we all just consuming old  
> stock?  
>

Dual-gate MOSFETS are currently being produced by Philips, Siemens, and Toshiba, with Philips in the lead. NEC has a pair of GaAs die, the NE231 and NE233, which are available in a variety of packages. Virtually all of them are in the surface-mount SOT143 package or similar.

Regards,

Chris

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    /  If you understand it,  \
   /    then it's obsolete!  \
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Circuit Design for the  
RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
QRP ARCI 9464

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)

Graphics by Loek Frederiks

-----  
Date: Tue, 12 Aug 1997 10:07:00 -0400  
From: "duane" <[duane@flinet.com](mailto:duane@flinet.com)>  
To: "QRP-L" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [24750] A1 K0FRP  
Message-ID: <199708121409.KAA15916@shell.flinet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

If anyone knows of a way to contact A1 K0FRP please let me know. I purchased some rotors from him and he sent them to me by UPS 7/21/97 before

the strike. I took some vacation time from work to put my tower and rotors up. The rotors never arrived. Now my vacation is ending and UPS can't track the rotors for me without a shipping number or tracking number. I've been trying to contact Al for over a week now but his Email box is full. The phone listing in the directory for Al is in error to an out of business number and the operator says their sorry for the mistake but still unable to find the correct listing due to the error. I have no problem with Al as all of this is out of his control, I just need the tracking number. So if someone knows how to reach him please give him my number 561-996-6290. This is a good case of Murphy's law hi hi. I repeat there is no problem dealing with Al he is unaware of my problem reaching him, and is unaware of the fact the rotors did not arrive. I'm just running out of time, I've got to back to work on the 21st !

72/73

Duane AB4BE QRP-L#710

<http://www.flinet.com/~duane>

[duane@flinet.com](mailto:duane@flinet.com)

[ab4be@amsat.org](mailto:ab4be@amsat.org)

-----  
Date: 12 Aug 97 10:43:00 -0400

From: [jfitton@lucent.com](mailto:jfitton@lucent.com)

To: [qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)

Subject: [24751] PA3GGE

Message-ID: <199708121444.KAA11944@emsr1.emsr.lucent.com>

Content-Type: text

Sorry for the bandwidth.....But e-mail did not work.

Peter, PA3GGE .... I gave you the wrong number !!!!

The FAX number is 508-960-3466

Thanks.....

72/73 Jim, W1FMR <><

[jfitton@lucent.com](mailto:jfitton@lucent.com)

-----

Date: Tue, 12 Aug 1997 08:31:51 -0700  
From: "Michael A. Gipe" <mgipe@reliablemeters.com>  
To: <adamsclan@netgate.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [24752] Re: 5 year old builder  
Message-ID: <199708121531.KAA01626@multi13.netcomi.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

Dave --

Oh--oh. I see my 6-yr-old daughter is going to have competition at the next Pacificon building contest. (Jessica Gipe --first winner, 1996)

But she's warming up. She helped me build the last Digital Clock Counter kit. She formed, inserted, and clinched half the R's, C's, and Q's, then I soldered them in place. She also let me install the bigger parts. She does excellent work, though her attention span is only long enough for a small kit.

Maybe your daughter and mine should form a team???

Enjoy the joys.

Mike K1MG

-----  
Date: 12 Aug 97 09:27:08 EDT  
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>  
To: "INTERNET:n6mm@earthlink.net" <n6mm@earthlink.net>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>  
Subject: [24753] Re: Special Foxhunt  
Message-ID: <970812132708\_70511.3041\_IHD74-1@CompuServe.COM>

Harvey:

Well I still haven't heard him. Not a peep. Plus, haven't heard a pileup. Have been wondering whether it was just me, or what. Not frustration, really, because I re-read his original e-mail. Seemed to notice some "wiggle room" spaces in there.

And as you, have had several nice QSO's anyway. \*Have\* even heard some DX here and there. Even worked a Cuban. Last night I tried to simply

call him, in the hope he might be the FOX waiting for someone to send a dog to flush him out of hiding. No luck. Oh well.

Are you going to look for him once more, tonight?! I will be there again so if you hear me, please give a holler.

72/73,

--Doc/K0EVZ qrp-1 861 norcal 2050 cqz 414 mn-qrp 19 nj-qrp 69 ak/qrp 139  
ARCI 9398 ARRL WAS 48/38 DXCC 52/39 <><

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Sierra OMNI V Argosy 525 Argo 515 HW-9 Explorer II-40 SW-30  
Norcal 40a Emtech 40-40 SW-40 TT 1340 A&A Gary Breed 30 49er  
38S Mercury Paddles MFJ 259 MFJ 941D TNT/2 Windom SLV/W6MMA  
HB G5RV Auttek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

-----  
Date: Tue, 12 Aug 1997 10:53:23 +0000 (GMT)  
From: Jim Glover <psykey@okcforum.org>  
To: qrp-1@fidooo.CC.lehigh.EDU  
Subject: [24754] Resonant speaker tube  
Message-ID: <199708121053.KAA00583@okcforum.org>  
Content-Type: text

Hi, everyone!

Well, I got around to trying out the resonator idea last weekend, and it worked out pretty well. I decided to start off trying out the tin-can route. Sure enough, the speaker I had (about 7 cm or 2.75 inches in diameter, rim-to-rim) fit beautifully over the top of an empty can. The audio results were interesting, but not impressive.

Someone posted a few weeks ago, about the fact that an empty can fit a lot of speakers, and worked pretty well. With this thought in mind, I kept an eye open at the hamfest a couple of weeks ago, for a speaker that looked about tin-can size, and found a nice one. Later, I read someone else's post, that mentioned that the Q depends on (I think) the ratio of the diameter of the tube to its length--the smaller that ratio (the longer the tube is,

as opposed to wide) the tighter the Q. When I read that, I was a little worried that the speaker I had selected might be a little too wide.

My experience with my tin can was consistent with what I had worried about--the apparatus didn't seem to have very sharp selectivity, although there was a noticable drop in background noise, and some of the higher tones were somewhat enhanced. I guessed it was favoring something around 1000 Hz, and I actually prefer a fairly low note for monitoring CW. So, I checked Ed's post about this, and from there, went to Ed's web page about making these things (thanks, Ed!), where I found the formula to determine the resonant frequency. I measured the can, cranked on the calculator for a few seconds, and sure enough, the math said that it should be somewhere around 950 Hz.

So...I got to thinking...what if I doubled the length of the tube? Obviously, that would cut the resonant frequency in half. And then I realized, it would also improve the Q. So, I cut the bottom out of an identical can, and used duct tape to connect the two together into one long tube.

Now, that was more like it! Sure enough, it favored those low tones I prefer, and it seemed to have somewhat sharp selectivity. The background noise was way down, too. Also, since this thing works on the odd-multiples principle, it had another peak (at around 1425, I suppose, based on the math).

Although someone posted saying that the back of the speaker should go into the can, I mounted mine with the front of the speaker pointed into the can. This leaves the rear framework of the speaker as sort of a structural protection for the more delicate parts of the speaker. I could tell that it would work better if I had the speaker facing my ears, so, I got rid of the test clips, put a quarter of a meter or so of wire and a connector on it instead, and duct taped the speaker to the top of the can. Then I reached for the handy-dandy spool of bailing wire, and fashioned a stand for it. (That's right, folks...duct tape and bailing wire...as well as paper clips, and rubber bands. The UDE in WB5UDE stands for "Ugly Duckling Engineering"!) Cradled in its stand, it sits at about a 45-degree angle...just right to be pointed right at me. (And that did make a difference, too.)

It's not without its disadvantages. My ear's preferences

notwithstanding, the low frequency is a disadvantage, because it appears that the filter in my receiver has already begun to roll off slightly by the time the frequency gets that low. The very weakest signals my receiver can detect, simply do not make it through and out the audio output jack, at around 475 Hz. So, if I want to try for those signals, I have to catch them at the 3rd harmonic, instead.

It has some excellent advantages, though! It's easy to make, inexpensive and fairly effective, and the parts are readily available. I count the fact that it looks sort of bizarre sitting next to the HW-101, as an advantage, too! :)

And...if you want to really isolate a particular signal, pick it up out of its stand, and hold the bottom of the can to your ear. With the apparatus in that position, its Q is very sharp, indeed! It really becomes a case of the wanted signal jumping out and grabbing you, as it hits the resonant frequency.

I, too, would like to have one of these things worked into a pair of headphones! It's a neat idea, plus, it explains something I saw in a cartoon, years ago. I don't remember the details, but the general theme of the drawing was all the crazy-looking stuff that we hams surround ourselves with. I was able to identify almost everything in the picture, except for one thing...the wild-eyed ham in the middle of it all, was wearing a pair of headphones, each side of which had a cylinder about the size and shape of a typical tin can, sticking out from it. Now, I guess I know what that part of the cartoon was about!

OK...now, a tin-can cylinder would look kind of funny sticking out each side of a pair of headphones. But... since the Q depends on the ratio of length to diameter... (and hard materials are better than soft ones) how about making the resonant tubes out of large diameter copper tubing? Then, they could be routed upward from the ears, and curved inward to follow the contour of the head. Anyone got any idea what to use as materials (besides the copper tubing)? What kind of speaker-like thing would be suitable? How could it be managed mechanically (held in place on the head, comfortably and securely, without any strain on the more delicate parts)?

--Jim WB5UDE (Ugly Duckling Engineering)

-----  
Date: 12 Aug 1997 11:03:07 -0500  
From: "rohre" <rohre@arlut.utexas.edu>  
To: qrp-l@Lehigh.EDU  
Subject: [24755] (ANTS.) Gap antennas principles  
Message-ID: <n1340738639.17671@msmailgw1.arlut.utexas.edu>

Well,

I guess we have a new batch of QRP-L folks on board so I will save them looking up the Gap threads in the archives over the past three or so years, and give the thumbnail version.

The Gap vertical antennas are all simply dipoles, but vertical dipoles using low loss linear decouplers for loading the different bands. These decouplers are akin to stubs of open wire line we have used for years as matching devices on various types of ham antennas. They just look more exotic when one side of them is the vertical mast itself. They effectively form capacitors to shorten various parts of the tubing to resonate on the higher bands.

The use of the asymmetric elevated vertical dipole is a common Broadcast Band antenna in places such as Argentina, and a paper on such appeared in the USA IEEE Antenna Transactions publication some years back. I got a copy of this paper from the Gap booth at Ham Com one year . For Broadcast work, you want to minimize ground losses, and have a good pattern in your coverage area, which the vertical dipole brings without investment in radial systems and ground screens. When you put the (40M) counterpoise wheel on the bottom of the Gap Titan, you end up with not needing the same length each side of the center insulator. Inside the Titan, (and I think other Gap models), there is a coax stub for loading on the lowest band. To make the coax stub fit the space inside the tubing, you have a capacitor across its upper end, with one side and one side of the coax tied also to the upper dipole end. This matches the antenna to your feed for 80M use over a greater than 100 kHz band. Other bands are full coverage. (less than 2:1 SWR)

Does it work? Yes indeed. As long as it is not coupling to something in the near field it seems to bring a lot of nice QSO's and DX with its low angle characteristic. It is stuck on a TV mast 6 feet above my back yard. As a bonus, I have enjoyed good short skip QSO's within the state, or in nearby states on 20M, where short skip was rare in the days I used low dipoles on 20M. I have heard of interaction as with any vertical, if you have something like a metal flue chimney nearby of a resonant length like 30M quarter wave. Its bandwidth on 80M exceeds the specs, thus I have not used a tuner for any band. It is full band coverage on 40M and up, and a tuner is not even recommended. It is quite sturdy, having survived 45 mph winds that I was able

to document, and more recently, some straight line winds that felled taller trees and limbs all around it during the Jarell TX tornados up the road from me. The bottom tubing is triple walled, and thus requires a couple of big folks to walk up, or three ordinary folks like most of us.

I had an "all band" Hy Gain coil trap vertical before with ineffective ground system. (I have mostly rocks under thin soil). The Gap works much better, although a home made vertical could be made, for less money IF you had a source for the aluminum tubing. (A BIG IF these days!!) If your time counts for something, Gap solves the all band problem with a minimal investment of time. However, I would like someone who has the time to sometime create a home made vertical dipole set for all these bands, and see if the performance is as good or ? I suspect the use of large tubing really is the full band coverage secret, and just wire verticals hung from tree limbs might not equal that aspect. But, one could use a cage of wire, and solve that issue.

Hope this inspires some antenna experimenters. I did not hear about any Gap beams at Ham Com this year and I always ask if I can be a beta-test site when I see Richard! I think the Sommer beam does use this type of loading/decoupling for band changing. That is a mighty beam, and some day, if I ever get the space----

72 Stuart K5KVH  
rohre@arlut.utexas.edu

-----  
Date: Tue, 12 Aug 1997 09:24:55 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: n6mm@earthlink.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24756] Re: Special Foxhunt  
Message-ID: <33F08E57.281D@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Been Searchin' the fox too. Not a peep.

As I faded in and out of conciousness I thought  
I heard someone calling him last night.

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)



HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Tue, 12 Aug 1997 09:20:12 -0700  
From: laura halliday <ve7ldh@direct.ca>  
To: qrp-l@Lehigh.EDU  
Subject: [24757] FAQs (was: Dan's MPF131)  
Message-ID: <33F08D3C.58B131A3@direct.ca>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

This question (dual-gate MOSFETs) is one of a number that seem to come up over and over - do people suppose it's time for a QRP-L FAQ?

A recent mailing from Mainline Electronics stated that the production lifetime for the typical non-trivial component is only a couple of years these days - far less than the time that has elapsed since projects calling for 40673s were published. Is it reasonable to expect projects to be reproduceable indefinitely?

If I really need a dual-gate MOSFET, I reach for my supply of BF961s, purchased from Cricklewood and Les Cyclades...

--  
Laura Halliday                    "C'est une femme mutine, assez elegante,  
ve7ldh@direct.ca    grave et legere, ayant le sens  
Grid: CN89mg        du confort et du plaisir en tout."  
                     - C. Deneuve

-----  
Date: Tue, 12 Aug 1997 16:36:22 +0100  
From: "Brian K. Short" <shortckt@primenet.com>  
To: qrp-l@Lehigh.EDU  
Subject: [24758] Scratch/Kit/Commercial (FS: 40m SST)  
Message-ID: <3.0.1.32.19970812163622.007496dc@mailhost.primenet.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Perhaps opinions about the relative merits of scratch vs kit vs commercial depend on who is

doing the buying, selling, or building?

Some kit construction seems like the mere stuffing of a PCB (perhaps followed by some debugging and then -maybe- use on the air).

Perhaps more noble is duplicating a design or combining "building blocks" in a "scratch" fashion.

Most noble (I guess) is RF circuit design (or trial and error) to come up with a new thing.

Non-working commercial rigs requiring repair, require all steps of kit construction except PCB stuffing. These include: studying and understanding the design, familiarization with layout, appreciation of idiosyncrasies, solving a problem (perhaps even systematically), and operating on the air. One may also care to "modify" some portion to enhance operation to personal tastes.

In terms of cost (if it is a criteria), a used commercial rig \*may\* in fact be a better buy as anyone will likely agree that buying an assembled automobile is far cheaper than buying the parts separately (scratch) and there are some "kit" cars, but that is a different story. (Though there are some interesting "homebrew" cars that operate on alcohol or chicken manure, etc)

What is this all about? I have a 40m SST, totally unbuilt, in the box, ready to be sent out Priority Mail to a new owner...

Anyone care to purchase it?

Now, shall it be first come, lottery, discriminatory selection, ...

(I'll decide)

73, Brian

"Only the lead dog gets a change of scenery!"  
Brian Short k7on@qsl.net <http://www.qsl.net/k7on>  
1994 E Laguna Dr Tempe, Az 85282 (602)839-3484

-----

Date: Tue, 12 Aug 1997 10:06:29 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: psykey@okcforum.org  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24759] Re: Resonant speaker tube  
Message-ID: <33F09815.78F5@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Nice informative post Jim!

How about a resonator tube with two nipples on top  
where we can hook up wome surgical tubing and  
stethoscope style headphones! You gave me this idea.

Maybe someone can get and seal up a hi-Q 2inch diamater  
resonator with speaker and solder some small tubes at the top  
to attach the rubber tubing to? Bet that would be a  
nifty experiment. Then maybe make the tubing a 'certain'  
length to optimize the set up?

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Tue, 12 Aug 1997 13:18:46 -0400  
From: "Bob Kellogg" <ae4ic@nr.infi.net>  
To: <psykey@okcforum.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [24760] Re: Resonant speaker tube  
Message-ID: <199708121721.NAA19156@mh004.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

All right, gang, let's get creative here.

Why not design a resonant chamber, with the speaker in it, as Jim has done,  
but solder a small (1/8'-1/4") tube about an inch long through the bottom  
of the can? Then, get a cheap stethoscope from WalMart. Take the end off  
the stethoscope and slide the flexible tube on your resonator tube,  
connecting the stethoscope to the resonator. It should work like some of

the phones used on airplanes. Lightweight on the head, fitting right in the ear canal, eliminating transient noise, etc., etc.

CUL,  
Bob Kellogg, AE4IC, Greensboro, NC  
Probably, but not necessarily. -- Benny Hill

-----  
> OK...now, a tin-can cylinder would look kind of funny  
> sticking out each side of a pair of headphones. But...  
> since the Q depends on the ratio of length to diameter...  
> (and hard materials are better than soft ones) how about  
> making the resonant tubes out of large diameter copper  
> tubing? Then, they could be routed upward from the ears,  
> and curved inward to follow the contour of the head.  
> Anyone got any idea what to use as materials (besides  
> the copper tubing)? What kind of speaker-like thing  
> would be suitable? How could it be managed mechanically  
> (held in place on the head, comfortably and securely,  
> without any strain on the more delicate parts)?  
>  
> --Jim WB5UDE (Ugly Duckling Engineering)

-----  
Date: Tue, 12 Aug 1997 13:35:12 -0400 (EDT)  
From: Chris Cartwright <ccart@dns.vidtel.com>  
To: QRP Reflector <qrp-l@Lehigh.EDU>  
Subject: [24761] Re: Resonant speaker tube  
Message-ID: <Pine.LNX.3.93.970812133036.1111A-1000000@dns.vidtel.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 12 Aug 1997, Ed Loranger wrote:

> Nice informative post Jim!  
>

Guys,

B&G Micro has some speakers the size of a quarter for 4/\$1. I have some at home and will check the impedance. Seems if you use a smaller speaker the tubes would be shorter and headphones would look less like something out of a 50's sci-fi flick. I'll check on them when I get home, oh, usual disclaimer on B&G.... 72

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --

-- N3XRV                      QRP WAS 17/9 (w/c) |            ccart@erols.com            --  
-- QRP-L #655 NORCAL #1891 QRP-ARCI #????? | http://dns.vidtel.com/~ccart --  
-- WIMPS Q's=04 30M=04 17M=00 12M=00 STATES=03/00/00 DX=00/00/00 QSL's=00 --

-----  
Date: Tue, 12 Aug 1997 10:42:33 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: Bill Hughes <WD6CCS@compuserve.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24762] Re: Pixie 2 xtal source request  
Message-ID: <33F0A089.3C2A@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I'm posting this request for Bill Hughes, WD6CCS who is new to the list.

Bill and his Tech+ son are building some Pixie2's and would like to get 40 Meter novice xtals.

I've seen posts for Phoenix Xtals ? here before and group buys.

Can anyone Help Bill out?  
Bill's email: <mailto:WD6CCS@compuserve.com>

Thanks!  
Ed Loranger

--  
72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
<mailto:we6w@qsl.net> <http://www.qsl.net/we6w>

-----  
Date: Tue, 12 Aug 1997 10:57:14 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: ccart@dns.vidtel.com, ae4ic@nr.infi.net  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24763] Re: Resonant speaker tube  
Message-ID: <33F0A3FA.23B5@qsl.net>  
Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Bob Kellogg wrote:

>solder a small (1/8'-1/4") tube about an inch long through the >bottom of the  
can? Then, get a cheap stethoscope from WalMart.

Hey Bob, I beat you by 12 minutes on the Stethoscope idea! Hi!

Chris Cartwright Wrote:

>B&G Micro has some speakers the size of a quarter for 4/\$1

I've got some PC mountable microphones and maybe an old  
modem speaker that might fit smaller resonant cavities.  
Hmmm.... 4/\$1 sounds good though.

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VF0.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Tue, 12 Aug 97 14:08:00 EST  
From: "Pat A. Taber" <pat@vtpo1.genrad.com>  
To: "'qrp-l@lehigh.edu'" <qrp-l@Lehigh.EDU>  
Subject: [24764] RE: Resonant speaker tube  
Message-ID: <33F06F1B@msgate>

>>solder a small (1/8'-1/4") tube about an inch long through the >bottom  
of  
>>the can? Then, get a cheap stethoscope from WalMart.  
>  
>Hey Bob, I beat you by 12 minutes on the Stethoscope idea! Hi!

Why would stethoscope tubing not attenuate the same way the tin can/tuned  
cavity does?

>>>=>PStJTT

-----  
Date: Tue, 12 Aug 1997 13:12:57 -0500

From: kreinbd@ccgate.dl.nec.com (David Kreinberg)  
To: qrp-1@Lehigh.EDU  
Subject: [24765] OLD "FIRE-BALL" XMTR  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Content-Description: cc:Mail note part

Gang:

In looking over the old 73 magazines I had, I noticed an interesting set of articles in the Nov. 90 issue.

Seems some excitement was generated when some hams got together and made what was called the "Fire-Ball" transmitter.

Essentially, this was a microprocessor TTL oscillator keyed on and off. The oscillator was in the 10 meter band (28.322 MHz?) and produced about 50 milliwatts, or so. Very simple and (apparently) effective. This was in the days of the last SS peak and the transmitter worked miracles on a quiet band, so the article reported.

Does anybody remember this little critter? Ever build one? The two hams (sorry don't recall their names or calls) even kitted these and had a little business going.

Sounds like a simple, neat project to do when the sun starts cooperating!

73 de Dave NR3E/5  
nr Dallas, TX  
qrp-1 #25, ARRL  
WIMPS: Qs=055 30m=042 17m=08 12m=05 States=027/05/04  
DX=02/00/01

-----  
Date: Tue, 12 Aug 1997 14:29:39 -0400  
From: Ronald McConnell <rcmcc@lucent.com>  
To: "'qrp-1@lehigh.edu'" <qrp-1@Lehigh.EDU>, "'bmug@qwl.com'"@nss2.CC.Lehigh.EDU, <bmug@qwl.com>  
Cc: "'Ronald McConnell'" <rcmcc@lucent.com>  
Subject: [24766] Map Help, MAPS, Place Names: MORE

Message-ID: <01BCA72C.2B4F7B00@adc\_lab9.amc.bell-labs.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I checked my bookmarks for more web sites for  
obtaining Latitude and Longitude for places  
(mostly cities).

<http://www.etak.com>

<http://www.BCCA.org/misc/qiblih/latlong.html>

<http://tiger.census.gov/cgi-bin/gazetteer>

<http://www.mit.edu:8001/geo>

and the most different, IP address to Lat/Long

<http://cello.cs.uiuc.edu/cgi-bin/slamm/ip2ll>

Cheers, 73,

Ron McConnell, w2iol

PS: I really don't spend all my time surfing the web.  
I just accumulated these and the others over a period of time.

-----  
Date: Tue, 12 Aug 1997 11:31:14 -0700  
From: Ed Loranger <we6w@qsl.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [24767] Re: Resonant speaker tube  
Message-ID: <33F0ABF2.231B@qsl.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Pat A. Taber wrote:

> Why would stethoscope tubing not attenuate the same way the tin can/tuned  
> cavity does?  
>



> >>>==>PStJTT

If I understand you correctly Pat, you are asking if the tubing could stand, on its own, as a filter. I would expect it to be a poor resonator, (tubing alone) due to the resiliency of the tubes. Very low Q. But cut to a specific length, I would expect good delivery of the morse code audio as coupled from the speaker-driven cavity.

-Ed Loranger

--

72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)  
HW-8;OHR-100, Pixie2, Johnson Viking II w/VFO.  
QRP-L#1068/Norcal#2227/ARS#275/ARCI#9397 grid CM88ok  
mailto:we6w@qsl.net <http://www.qsl.net/we6w>

-----  
Date: Tue, 12 Aug 97 18:38:49 UT  
From: "Ed Manuel" <n5em-qrp@msn.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [24768] RE: OLD "FIRE-BALL" XMTR  
Message-ID: <UPMAIL15.199708121838410936@msn.com>

Remember, Heck! We have been using them regularly for the last 5 or 6 years. We mate them up with a morse id'er and send them up on high-altitude ham radio balloons to the "edge of space". Cheap beacons that take a lickin' and keep on tickin'.

Ed, N5EM

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU On Behalf Of David Kreinberg  
Sent: Tuesday, August 12, 1997 1:13 PM  
To: Low Power Amateur Radio Discussion  
Subject: OLD "FIRE-BALL" XMTR

Gang:

[] (snip)

Does anybody remember this little critter? Ever build one?  
The two hams (sorry don't recall their names or calls) even  
kitted these and had a little business going.

Sounds like a simple, neat project to do when the sun starts cooperating!

-----  
Date: Tue, 12 Aug 1997 07:46:42 +0100  
From: "Frank, G3YCC." <g3ycc@gqrpclub.demon.co.uk>  
To: mgemm@mtechnologies.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [24769] Re: Key pictures on the web  
Message-ID: <Y7zbtEASbA8zEw1z@gqrpclub.demon.co.uk>  
MIME-Version: 1.0

In message <199708112037.0AA21462@bobcat.sni.net>, Marshall Emm  
<mgemm@mtechnologies.com> writes  
>I've put images of some of my more interesting keys on the web sit.  
There are also quite a nymber on my web site too, for info.  
Frank, G3YCC GQRP Club 042  
Packet: G3YCC@GB7HUL  
QRP Web Page: <http://www.gqrpclub.demon.co.uk>

-----  
Date: Tue, 12 Aug 1997 15:33:59 EDT  
From: wa5whn@juno.com  
To: qrp-1@Lehigh.EDU  
Cc: w7el@teleport.com, n5zgt@swcp.com  
Subject: [24770] EZNEC Software / N5ZGT YHOTY '97 award winner/  
Message-ID: <19970812.133259.7447.1.wa5whn@juno.com>

qrp-1ers,

First, let me state that I have no financial interest in any enterprise, represented by Roy Lewallen, W7EL.

I had purchased the EZNEC software, from Roy-W7EL, after listening to W6RCA's presentation @ Ft. Tuthill (Check out KI7MN's URL; photos taken @ Ft. Tuthill).

<http://www.dancris.com/~ki7mn/>

Since I occasionally wander up into the 10+ GHz part of the spectrum, I had thought I might like to model some of those systems. However, one caveat, EZNEC does not model any other geometry, other than circular (ie: circular wires, vs. stripline-usually, non- circular), but (Hey, I am

from New Mexico, I am allowed to cheat. That's what I was taught in the Albuquerque Public School's system, Outcome based Education) if You abuse a HP Analyzer regularly, You can read  $Z_0$  ( $R \pm jX$ ), directly off of the analyzer, @ a specified frequency, and feed that data into the EZNEC software (segments & loads), and it works. It scales rather nicely, from 1 MHz to 10 GHz, with EZNEC.

Roy has a demo (ELNEC) that You can download from his Web Site (any search engine will take You there, keyword: W7EL), plus, You must read the 400K bytes file (EZNEC.txt) first. I would like to suggest that Roy place that one file (EZNEC.txt) on his web page, since that allows You to really understand what this software is capable of modeling. EZNEC sells for \$89.00 (USA) postpaid from W7EL. He does use the US Postal Service ;-). Contact Roy, not me, if You are interested in the software, via the internet, w7el@teleport.com.

<http://people.delphi.com/cecilmooore/>

"Subject shift (standby for immediate subject shift, fasten Your' safety belts, please bring Your' mindset into an upright position)"

"Worldradio", Sept., '97 issue, back cover. Anyone notice N5ZGT on the back page ? Also, I have a photo of N5ZGT, taken in '96, in Riley, NM, during the NorCal QRPTTF (Yes, in the photo, to Brian's left is KI6DS, and right behind him is NA5N). Brian will be in Huntsville, Alabama, Aug. 16 & 17, 1997 (Contact WB4KKA for details), plus Albuquerque, NM, Aug. 23 & 24 (Contact KC5NZR for details) to attend both Hamfests. Well done Brian, for becoming this year's YHOTY award winner. (Young\_Ham\_of\_The\_Year).

<http://members.aol.com/JayMiller/index.html>

I do hope to work all of You during the New England QRP Club's "QRP AField", Sept. 20th.

We will return control of Your' screen to You now. ("Outer Limits")

72...Jay, WA5WHN      DM65qd

-----

Date: 12 Aug 97 15:39:57 EDT  
From: "W. D. Lindsey" <70511.3041@CompuServe.COM>  
To: "INTERNET:we6w@qsl.net" <we6w@qsl.net>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>  
Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>  
Subject: [24771] Re: Special Foxhunt  
Message-ID: <970812193957\_70511.3041\_IHD68-1@CompuServe.COM>

Ed:

I might be the guilty party. After searching for him for two straight nights with no sign of The Chuck....I decided to see if I could somehow flush him out of hiding. Maybe send a hunting dog close enough to make him jump out. So I called him a couple of times. But it didn't work. Nuts. Oh well!

But I will be in the hunt again tonight, hoping...

72/73,  
--Doc/K0EVZ qrp-l 861

-----  
Date: Tue, 12 Aug 1997 15:03:37  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@Lehigh.EDU  
Subject: [24772] Re: Scratch/Kit/Commercial  
Message-ID: <3.0.1.16.19970812150337.2f0f97b4@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hi All,

I've been giving this subject some thought since Preston brought it up.  
Time for my \$0.02.

On the surface, it can look like kits are a rip off. Typicly you are paying about twice what the parts cost. BUT, are you really?

Often a kit will have parts that are not easy to get in single quantities at a resonable price. Say you need a five dollar IC, but can only get it from a main line distributor with a fifty dollar minimum and has sales reps that don't want to talk to you unless you have a company name. Don't forget the shipping and handling costs. These can eat you alive.

Many of todays projects need a micro controller. Are you really willing to

pay for a programmer, development software and learn to write assembly code? Fun to do if you are so inclined, but much more cost effective to buy a programmed part from someone who has already made that investment.

Even if you have the ability and resources to build from scratch, it can be worth while buying a kit. Even something as simple as an audio amplifier. You have all the parts you need in one bag, they fit on the board and you do get a nice pc board to build it on. In the long run, you save time, effort and get a nice looking finished product.

I consider myself a hardcore build-it-from-scratch homebrewer. That did not stop me from getting a WM20 from Small Wonders Lab. It was something I probably would not have ever gotten around to doing myself. I'm looking at the OHR power meter and the AADC cap/inductance meter for the same reason. Sure I could do it myself, but for not much more money, maybe even less, I can get it in an easy to build form and save myself a lot of time and effort.

Design and build it from scratch? Sure, go for it. It's lots of fun and a good learning experiance. Don't expect to save money though. In the long run, it can cost a bundle.

Build a kit? It's a good way to go and still save over a commercial prebuilt unit. The savings in time and effort can be significant.

>From time to time, I like to kit up one of my better projects for resale. I do this for a couple of reasons. The up front costs of making sure it uses available parts and making it repoducable are considerable. That even discounts the extra time and effort. But, the rewards are good. Most of all, I like to see my babies reproduce. It gives others a chance to build something useful they might not otherwise have done. It gives me an excuse to buy nice looking boards and have a good looking version myself. I sure the heck don't do it for the money. By the time it's all said and done, I get maybe 25 cents an hour. Even that might be optimistic. I'm sure the other small time kit suppliers here will agree with me. It's not the money, its the nice feeling you get when someone says, hey, works great, glad I built one, thanks.... (most don't say anything though, this I take as a good sign. A quiet camper is a happy camper... )

73,

Steve, KD1JV....In the White Mountains of New Hampshire

"Melt Solder"

-----

Date: Tue, 12 Aug 1997 16:34:30 -0400

From: rerobins@unccvm.uncc.edu (Rick Robinson)  
To: qrp-1@Lehigh.EDU  
Cc: kjoseph@dns.ida.net  
Subject: [24773] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The Net!  
Message-ID: <v02130503b0160aa5a34f@[152.15.144.13]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

<snip> <snip>  
>Here At Homepage Designers Co. our goal is to see your dream page become a<  
<snip> <snip>

Blah Blah .... ad infinitum, ad nauseum!

This really must cease! M/P is becoming a spam ops dream list. I sure hope kjoseph@dns.ida.net is not a ham. Whoever he is, I hope he gets a mailbox full. He probably works with Svetlana.

73,

Rick kf4ar

-----  
Date: Tue, 12 Aug 1997 17:03:57 +0600  
From: Rick Powell - WB6JBM <ripowell@mpna.com>  
To: qrp-1@Lehigh.EDU  
Subject: [24774] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The Net!  
Message-ID: <1.5.4.32.19970812110357.002b3d3c@smtp.mpna.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

with an address of @dns.ida.net it removes all doubt from my feeble mind...  
this from address should be bounced!  
the best thing to do is send mail to hostmaster@ida.net and inform him of  
the spamming activities being performed using his DNS server...  
/rick

At 04:34 PM 8/12/97 -0400, you wrote:

> <snip> <snip>  
>>Here At Homepage Designers Co. our goal is to see your dream page become a<  
><snip> <snip>  
>  
> Blah Blah .... ad infinitum, ad nauseum!

>  
>This really must cease! M/P is becoming a spam ops dream list. I sure  
>hope kjoseph@dns.ida.net is not a ham. Whoever he is, I hope he gets a  
>mailbox full. He probably works with Svetlana.

>  
>73,  
>  
>Rick kf4ar

>  
>  
>  
>  
>  
>  
Argonaut 505 - MFJ 9020 - 38 Special  
<http://www.mpna.com/ripowell> ripowell@mpna.com  
WB6JBM/8/QRP Richard Powell  
QRP-L - #1118 Cincinnati, OH  
TENTEN - 13044

-----  
Date: Tue, 12 Aug 1997 14:02:02 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Rick Robinson <rerobins@unccvm.uncc.edu>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>,  
webmaster@unccvm.uncc.edu, postmaster@unccvm.uncc.edu, abuse@unccvm.uncc.edu  
Subject: [24775] Re: [Mobile/Portable] Lowest Priced Homepage Designer On The Net!  
Message-ID: <Pine.BSI.3.96.970812135944.26966A-100000@usr07.primenet.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

That's funny: Since when does an educational ISP allow commercial  
advertising and spamming?

Check out that domain address.

On Tue, 12 Aug 1997, Rick Robinson wrote:

> <snip> <snip>  
> >Here At Homepage Designers Co. our goal is to see your dream page become a<  
> <snip> <snip>  
>





Ooops!

On Tue, 12 Aug 1997, Rick Robinson wrote:

Regards,

Chris

```

      ,-----'
    / If you understand it, \
   / then it's obsolete!   \
  \ -----'
 _ ||
oo\
(--) \
     \ \ . ' . \
        \| " \
          \|
           . ( ) \
            '-| )_--| :. \
              | | | | \ '
               c__; c__; '...'>._

```

Circuit Design for the  
RF Impaired

Chris Trask / N7ZWY  
Principal Engineer  
ATG Design Services  
P.O. Box 25240  
Tempe, Arizona 85285-5240

Technical Editor,  
QRP Quarterly  
QRP ARCI 9464

Email: [ctrask@primenet.com](mailto:ctrask@primenet.com)

Graphics by Loek Frederiks

Date: Tue, 12 Aug 1997 14:22:16 -0700 (MST)  
From: Chris Trask <ctrask@primenet.com>  
To: Rick Robinson <rerobins@unccvm.uncc.edu>  
Cc: Low Power Amateur Radio Discussion <grp-l@Lehigh.EDU>

